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TM-1003 005 00

Milestone 11

Prepare Bird Buffer System Tape (SPST)

10 Min. 100

TECHNICAL MEMORANDUM

(TM Series)

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Milestone 11	SYSTEM
Prepare Bird Buffer System Tape (SPST)	DEVELOPMENT
By	CORPORATION
R. C. Wise	2500 COLORADO AVE.
10 March 1963	SANTA MONICA
Approved	CALIFORNIA
J. B. Munson	

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IDENTIFICATION

- A. Title: Prepare Bird Buffer System Tape (SPST) - Ident 06C, Mod AD
- B. Author: R. C. Wise, System Development Corporation

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PURPOSE

The Prepare System Tape program (SPST) will initially generate a Bird Buffer System tape from a specially formatted input deck, or subsequently edit any part of an existing system tape.

USAGE

A. Operating Procedures

1. Mount tapes as follows:

Tape 1; Existing Master (optional)

Tape 2; Blank

Tape 3; Prestore Corrections (optional)

2. Load SPST

SPST occupies 100₈ to 2700₈ in bank 1.

3. Set Jump Keys (see "F", Jump Key Settings)

SPST will halt at 100₈, make proper key settings and press start.

4. Start SPST

5. Successful Halt

SPST will halt at location 557₈.

B. On-Line Messages

All messages are typed on the on-line typewriter. If the input deck is from the prestore tape, any message will be followed by "UNRECOVERABLE ERROR". With input from the card reader, correct the card in error and continue by depressing the RUN switch.

The messages are as follows:

1. ERROR ON CODED CARD
2. ERROR ON BINARY CARD
3. SYMBOLIC TAG NOT IN SYMBOL TABLE
4. READ ERROR ON PRESTORE TAPE
5. INPUT OUT OF ORDER
6. CARD READER NOT READY

C. Program Stops

<u>Location</u>	<u>Operation</u>
101 ₈	Set jump keys and RUN.
557 ₈	Successful halt.
1640 ₈	Correct card in error and RUN.
1650 ₈	Unrecoverable error.

D. Tape Assignments

1. Unit 1 - Existing Bird Buffer System Tape.
2. Unit 2 - New Bird Buffer System tape.
3. Unit 3 - Prestore input.

E. Input/Output Formats

See Appendices

F. Jump Key Settings

1. Jump key 4

Set: Use existing master tape.

Not set: Do not use existing master.

2. Jump key 2

Set: Input from 167 card reader.

Not set: Input from 163 unit 3.

3. Stop Key 1

Set for debugging halts only.

OPERATING DESCRIPTION

SPST is loaded into bank 1 from a bi-octal paper tape, or from a binary deck by the loader. SPST rewinds its input tapes and after sensing jump key 2, sets its input switch to read either from the card reader (167-2) or tape 3. A symbolic card is read from the input source; the card must either be an END card or a BANK card. If an END card is read, the new Master tape will have an end of file written on it; it will be rewound, and parity-checked. If a BANK card is read, SPST will check the bank number against the position of the new master. If the inputs are not in sequence, SPST will attempt to align the sequence by copying the old Master to the new Master (if there is an old Master). If the input is in sequence, binary cards will be read from the input source until a binary transfer card is encountered. After reading the binary transfer card, coded correctors will be read until a coded transfer card is encountered. The bank is then written on the new Master tape. This processing loop continues until the END card is read.

RESTRICTIONS

A. Minimum Hardware

1. One 160A/169
2. One 163-4 tape adaptor or one 163-2 tape adaptor and 167-2 card reader.
3. One 161 typewriter.

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B. Input Format

The bank cards must be in ascending sequence, and all banks must be present if there is no existing tape. For each bank block present, there must be present a binary and a coded transfer card even if there is no binary, or coded information.

TIMING

The timing of SPST is a function of the number of cards in the input deck plus twice the time required to write four 4000 word records on a 163 tape.

Approximate time required to make a Bird Buffer System tape is 4 minutes.

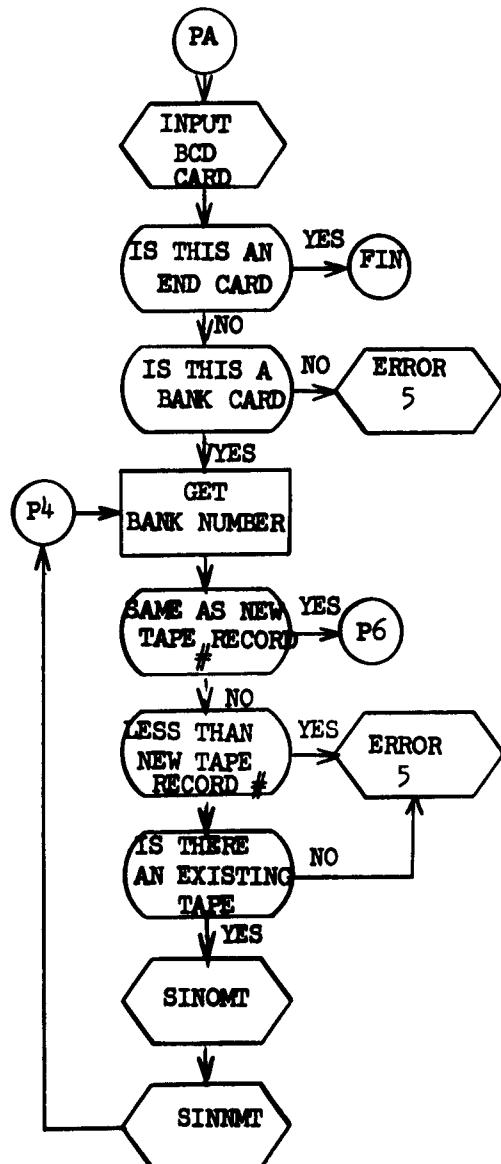
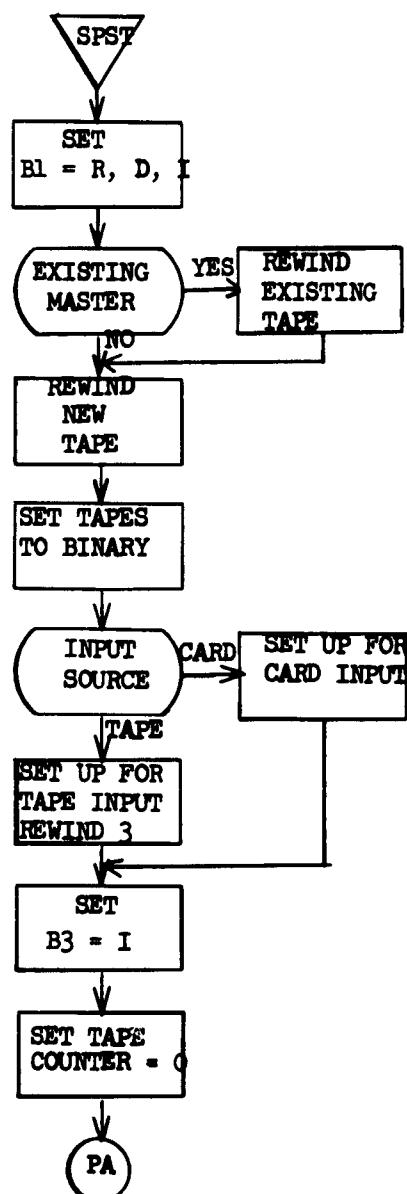
STORAGE REQUIRED

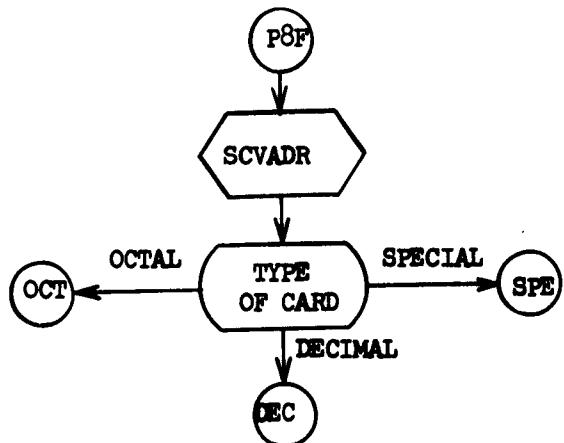
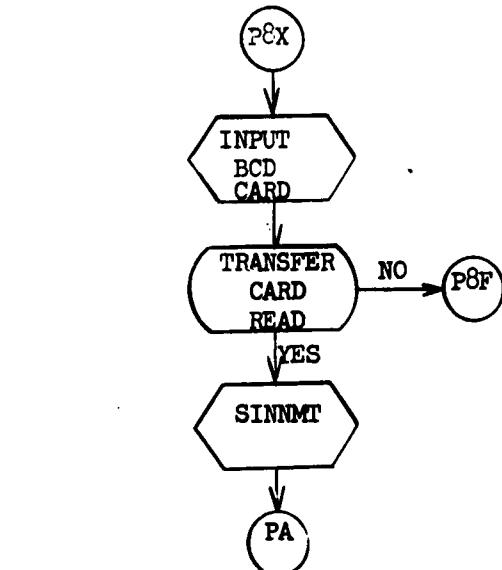
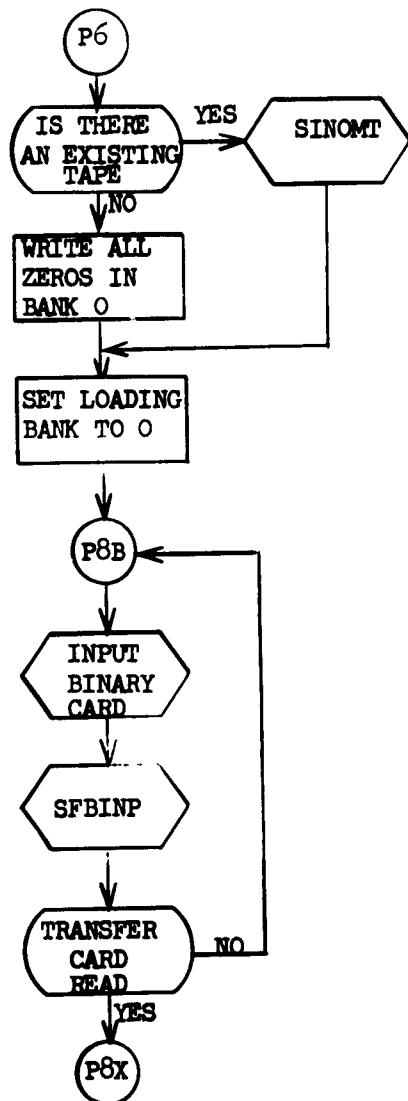
- A. Program - 2660_8 cells in bank 1 (100-2766)
- B. Tape Buffer - 7777_8 cells in bank 0 (0-7777)
- C. Card Buffer - 120_8 cells in bank 3 (7000-7120)
- D. Direct Cell - 21_8 cells in bank 1
- E. Symbol Table- $\underline{3776}_8$ cells in bank 1 (4000-7776)

Total: $17,026_8$ cells

VALIDATION TEST

SPST was validated by constructing operational Bird Buffer System tapes. The validity of the tapes was demonstrated by listing the contents of the tapes and by operating portions of the Bird Buffer System from the tapes. An additional test is shown in Appendix D.

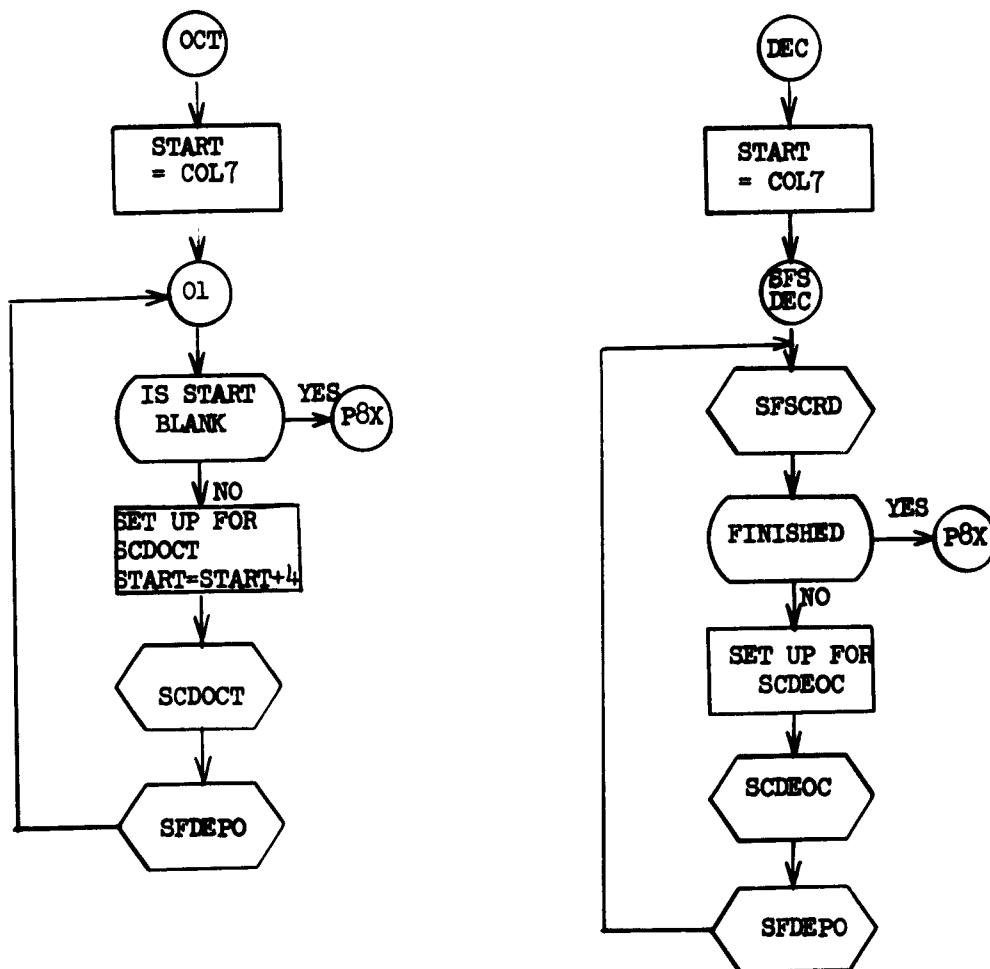


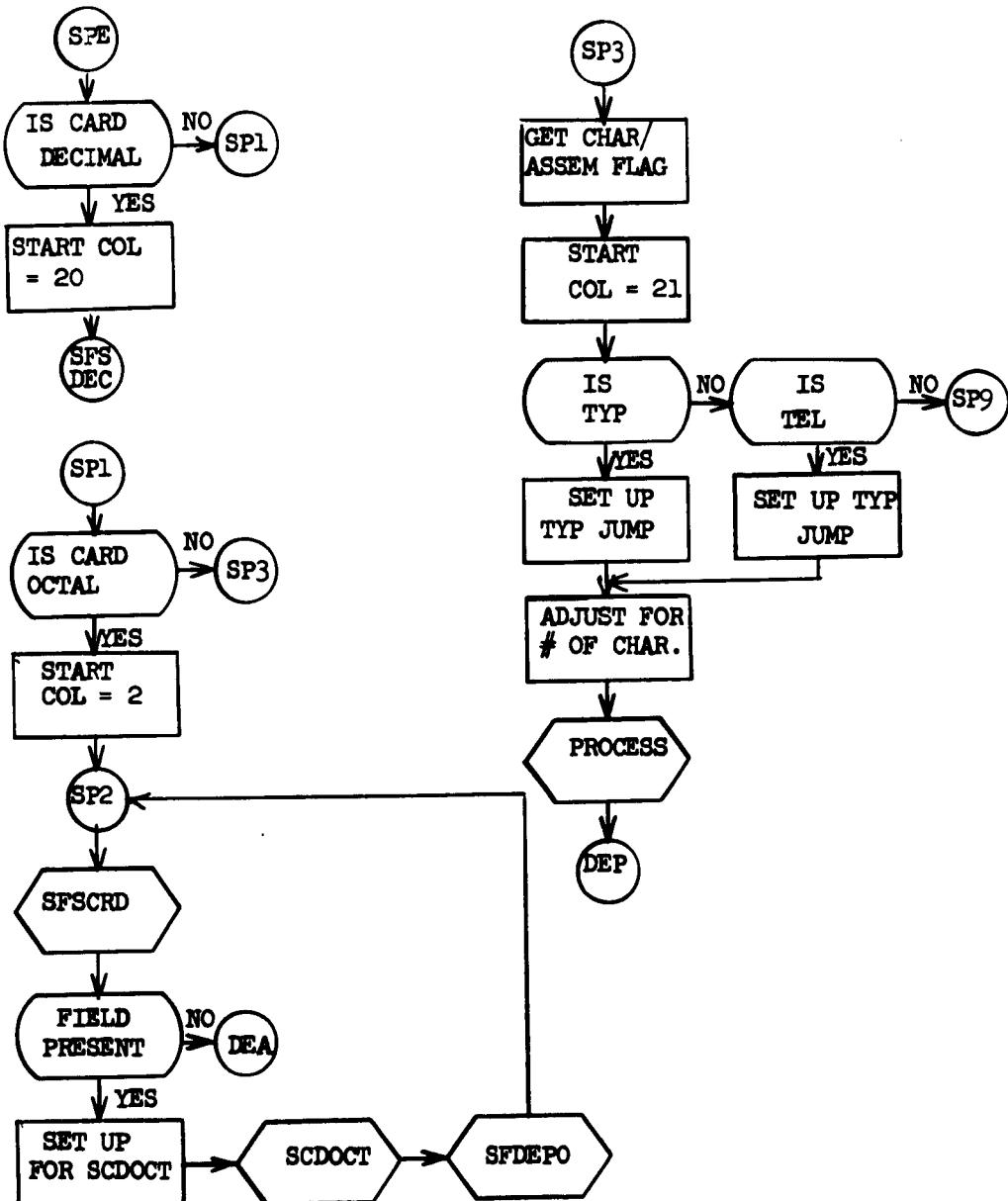


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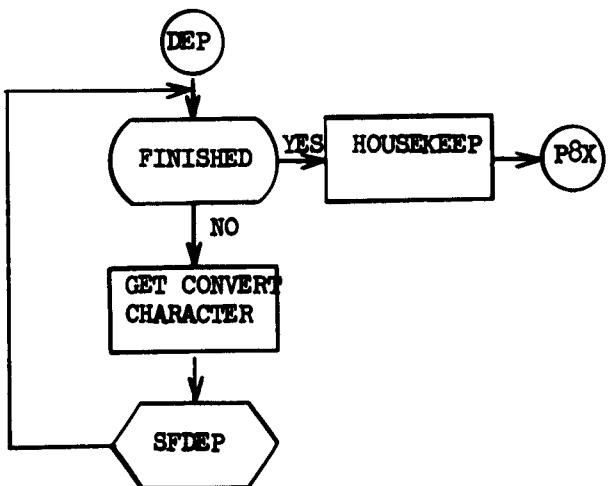
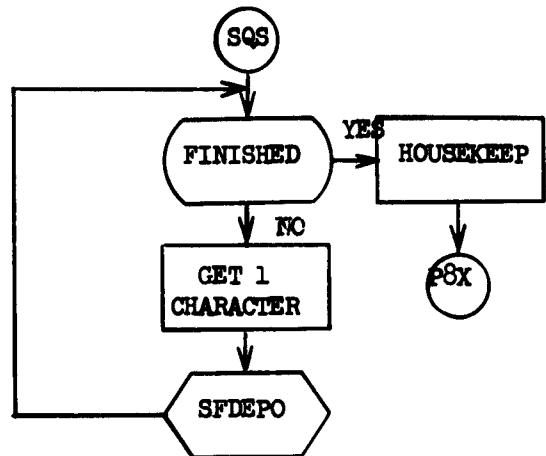
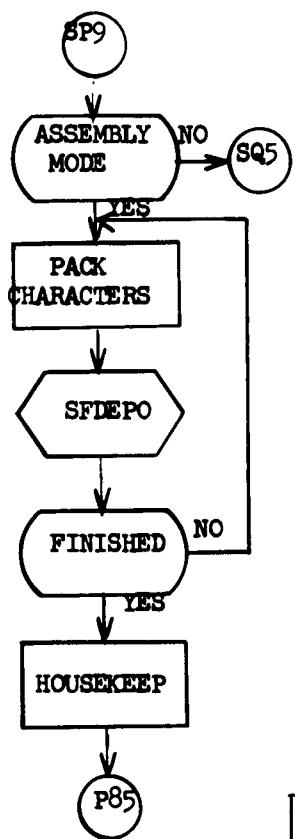




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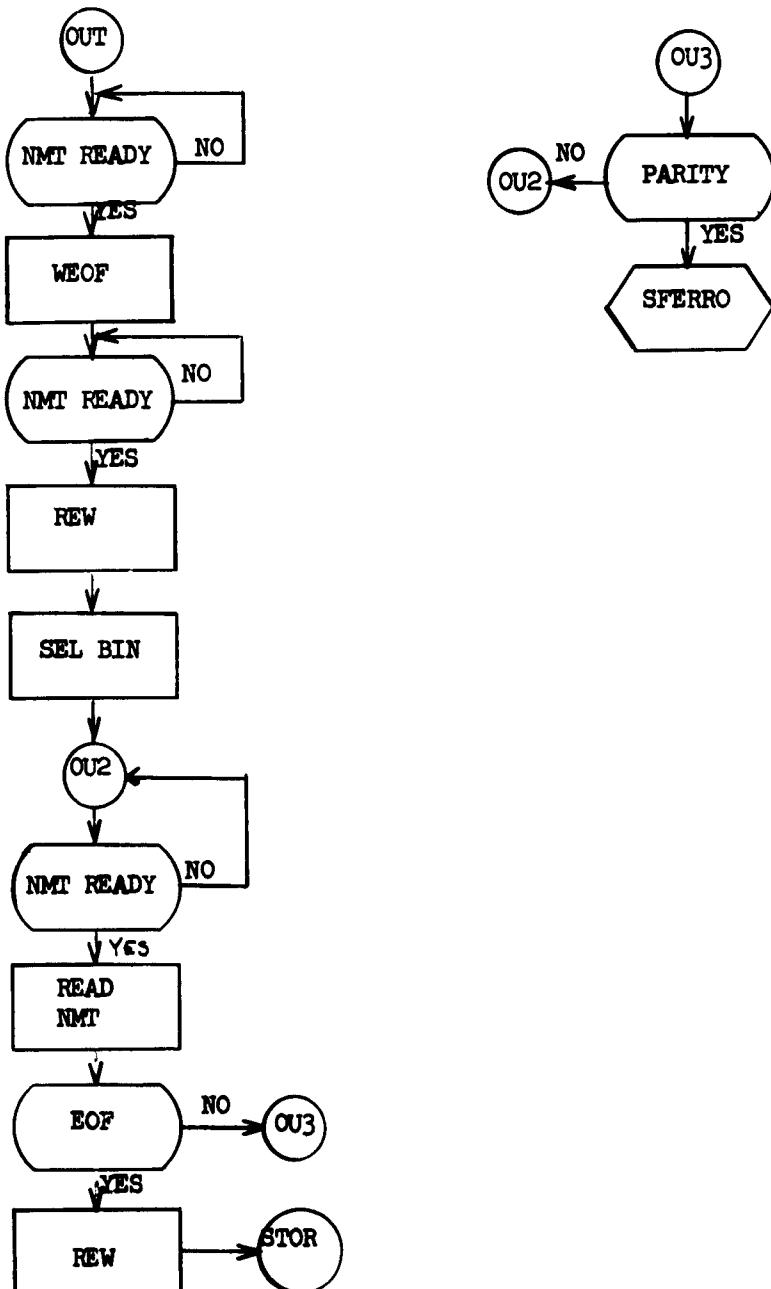
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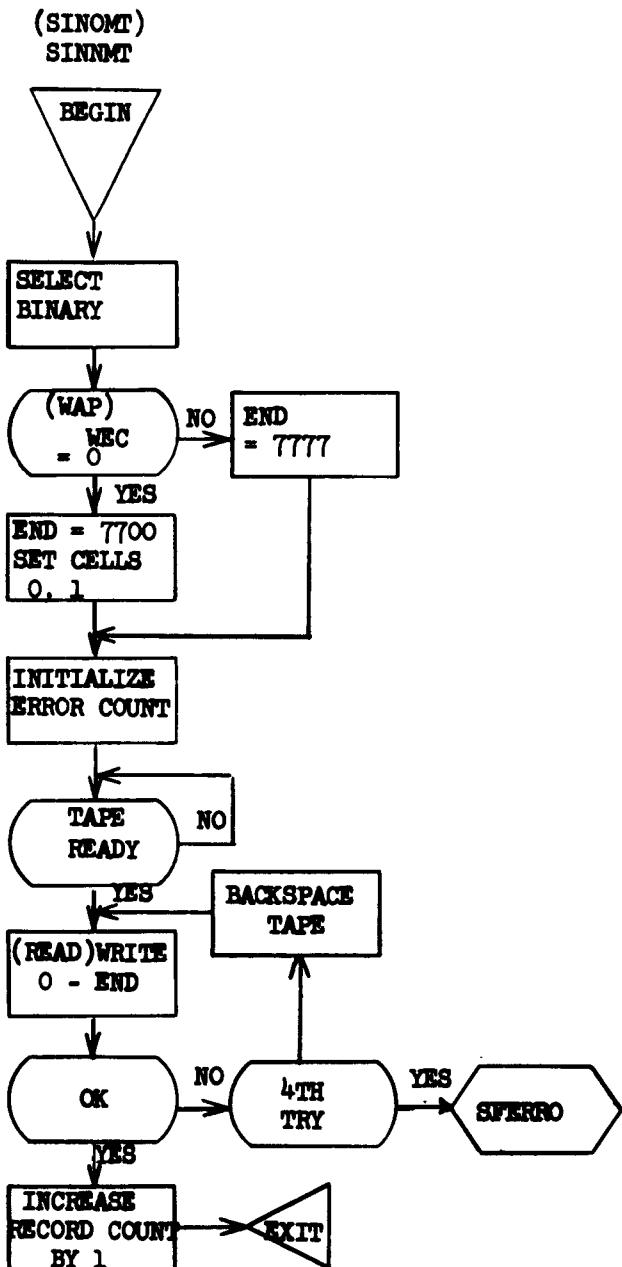
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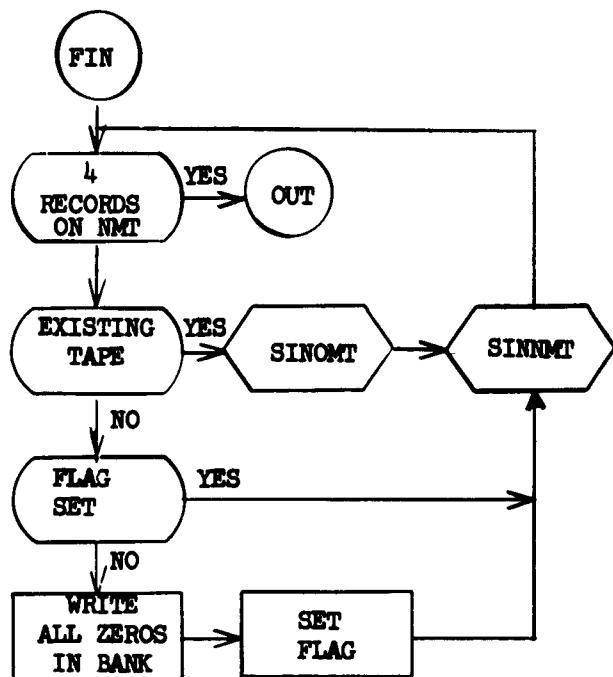
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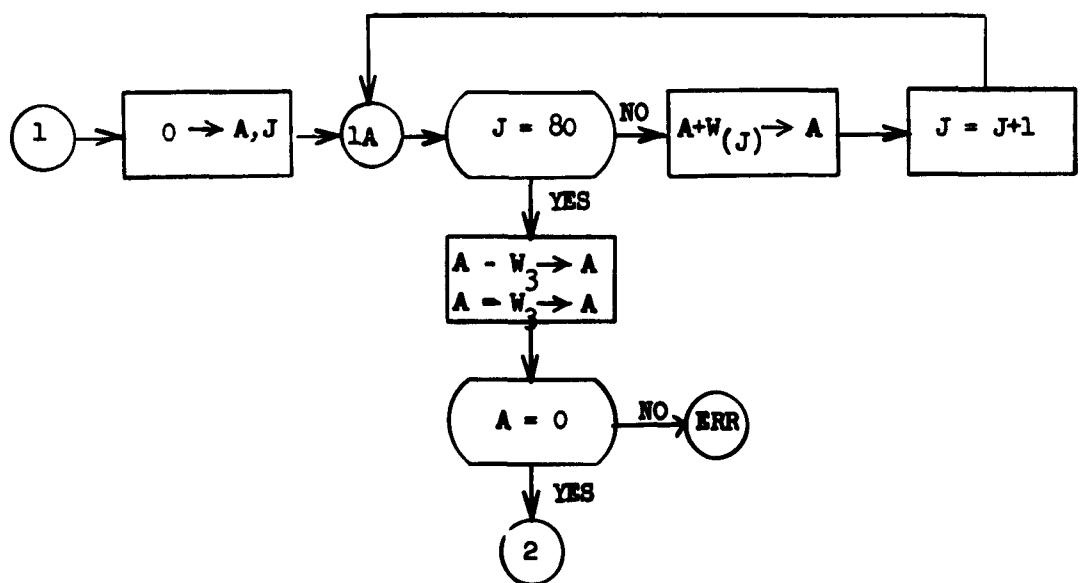
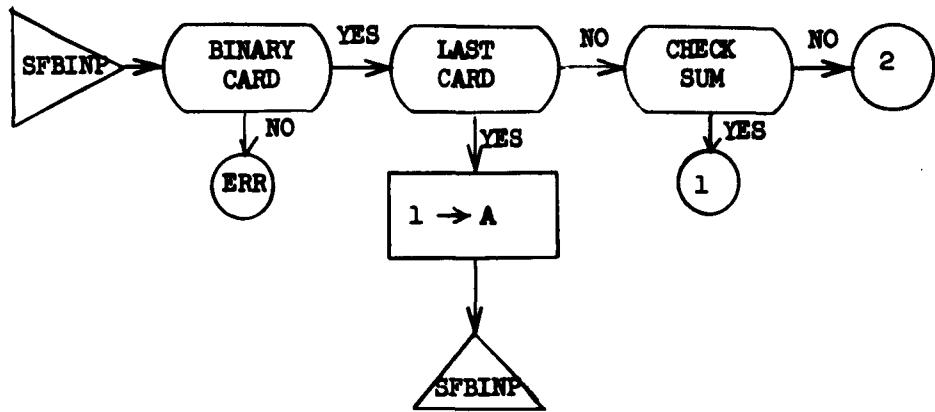
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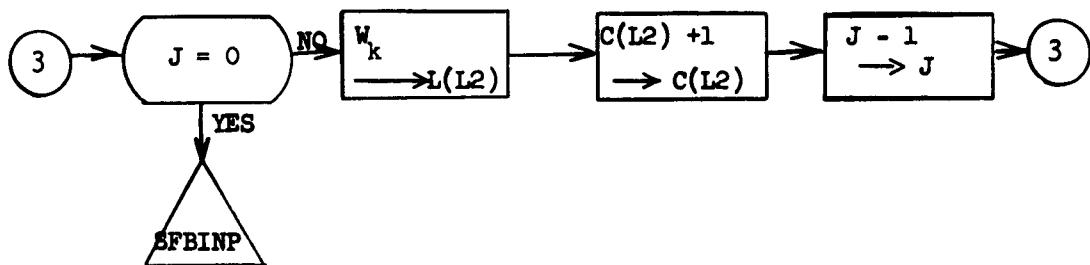
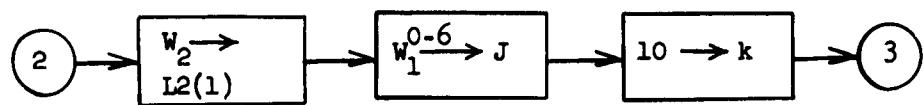
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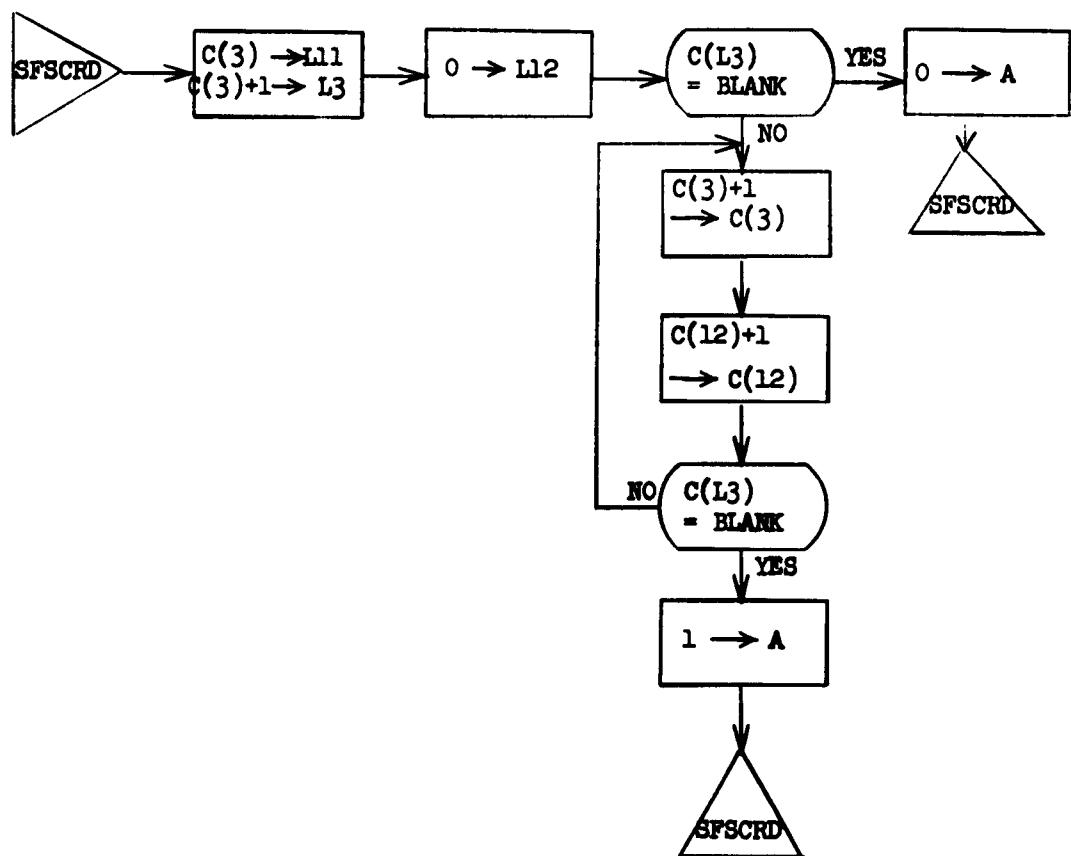
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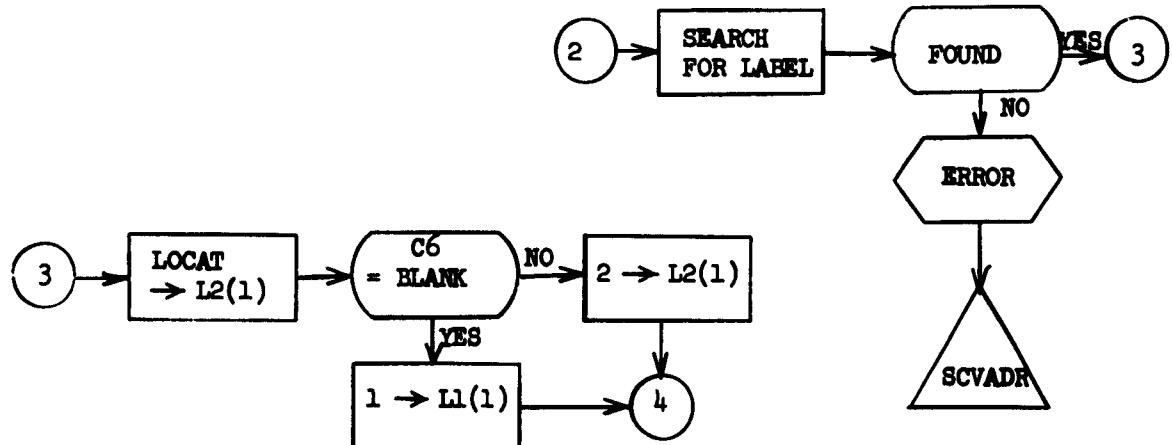
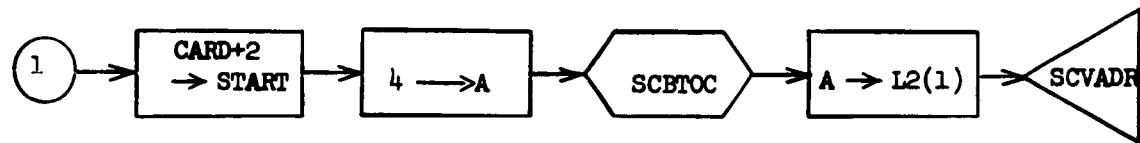
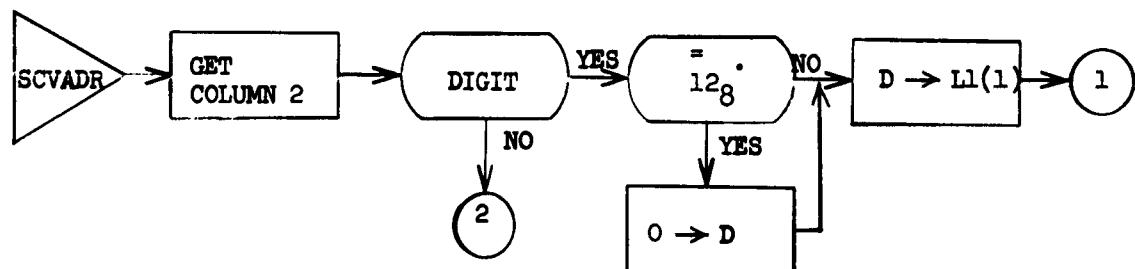
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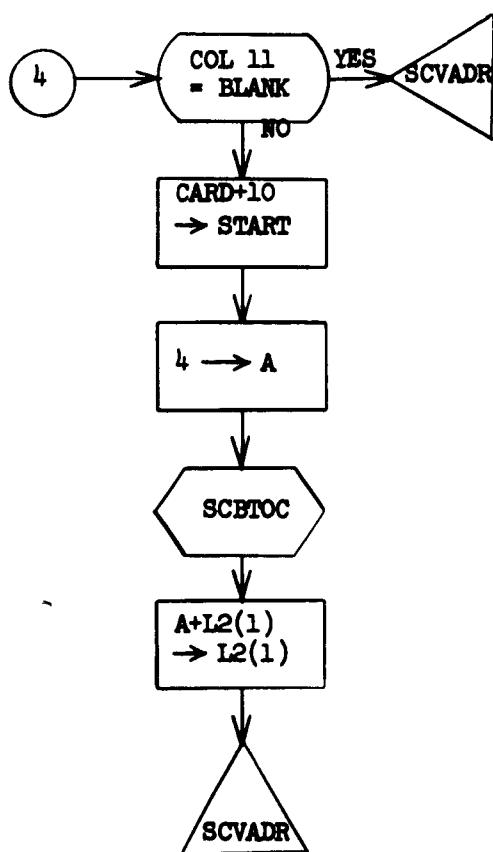
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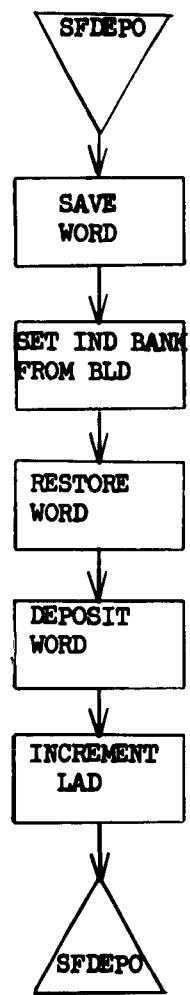
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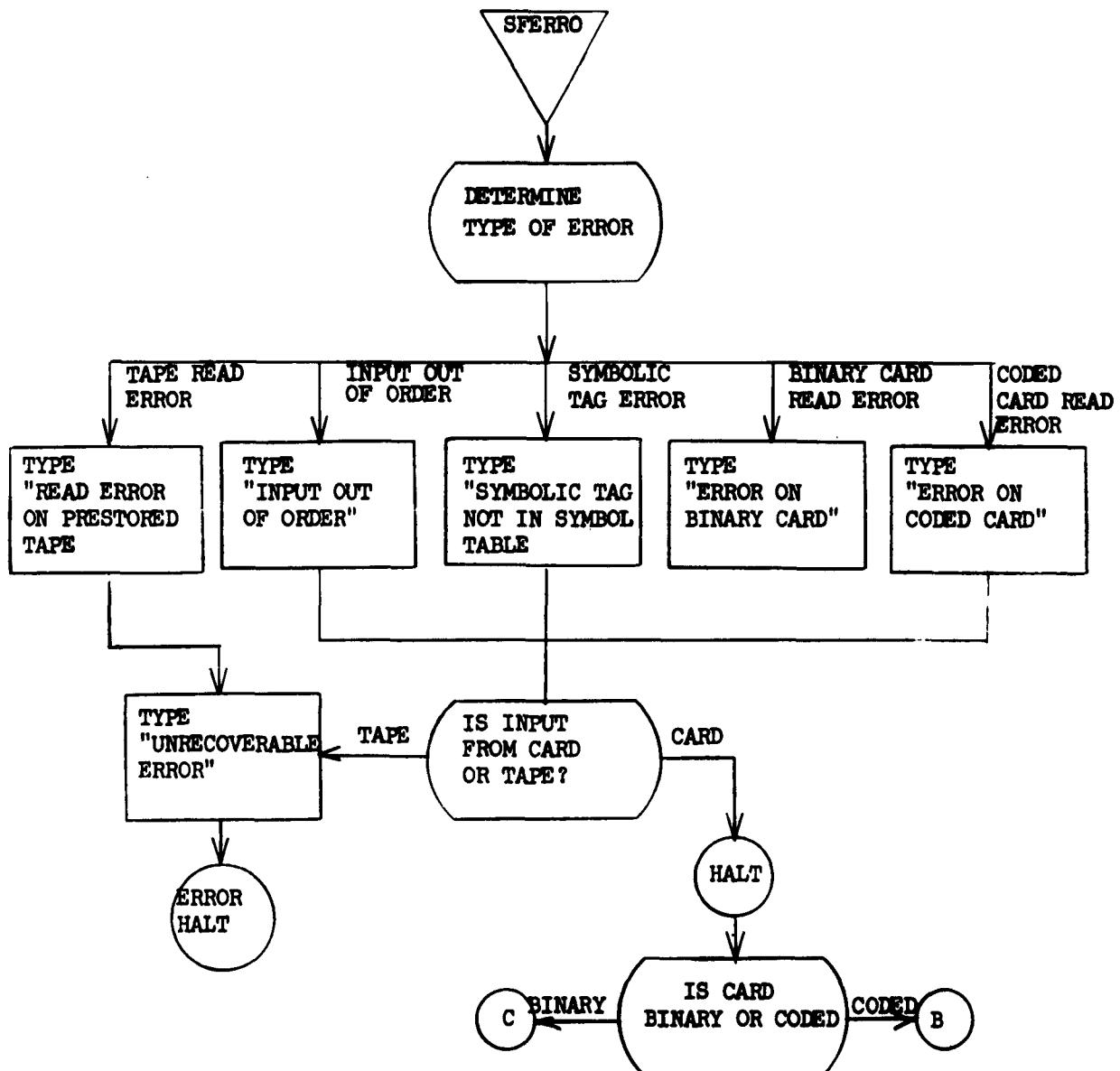


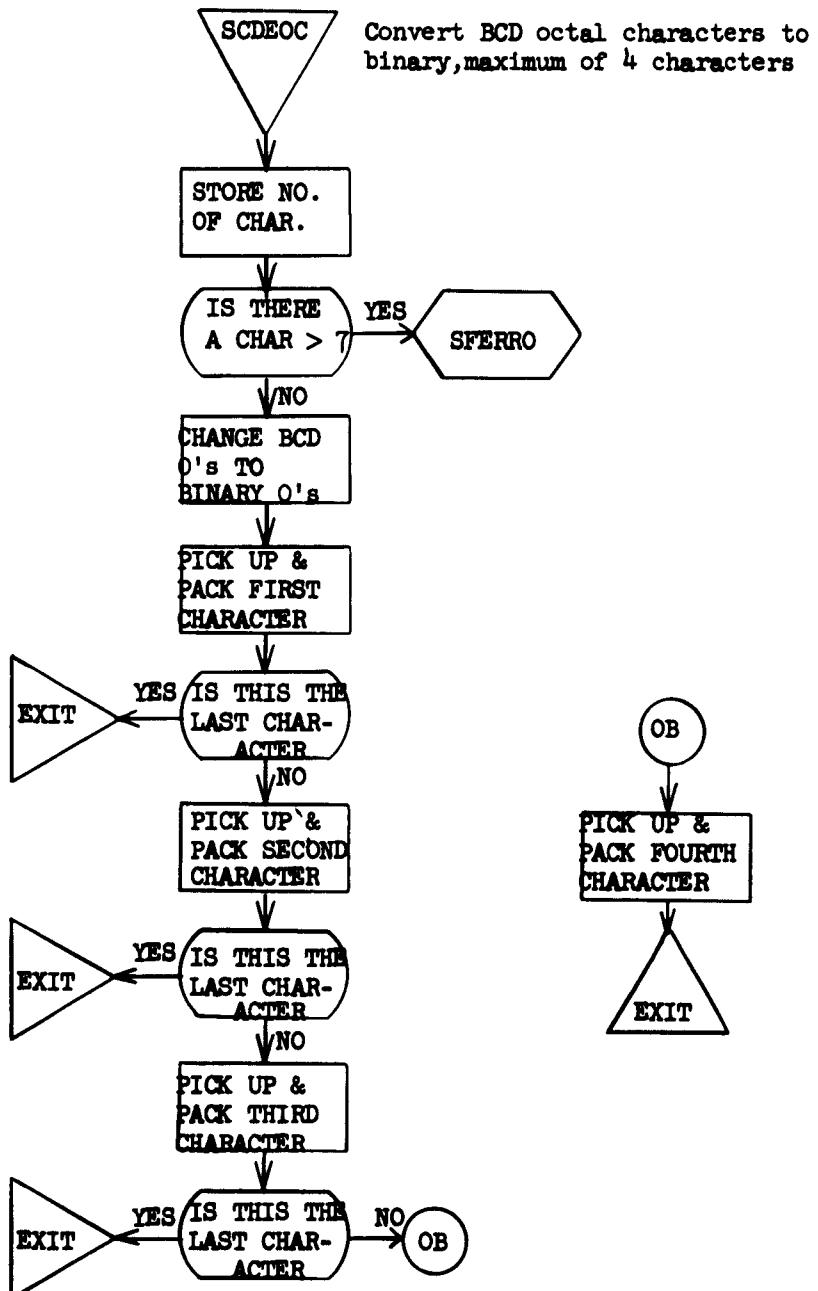
10

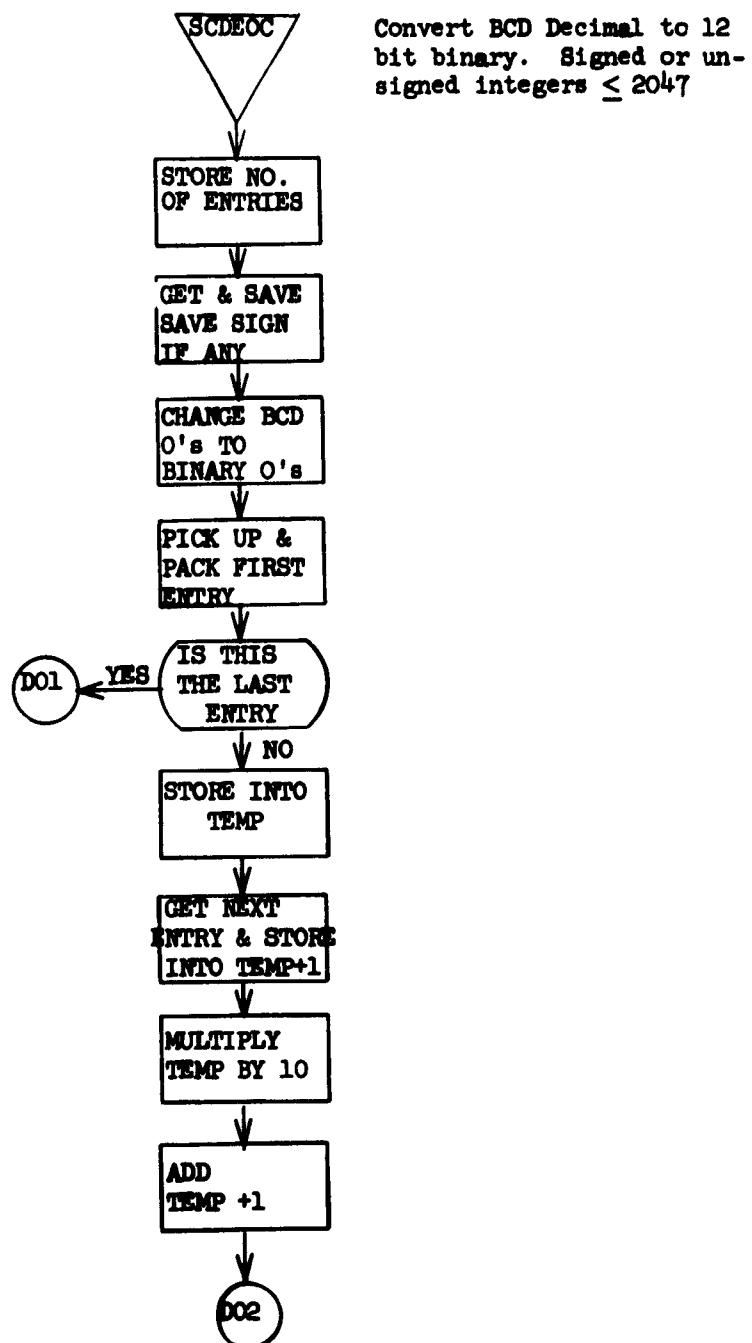
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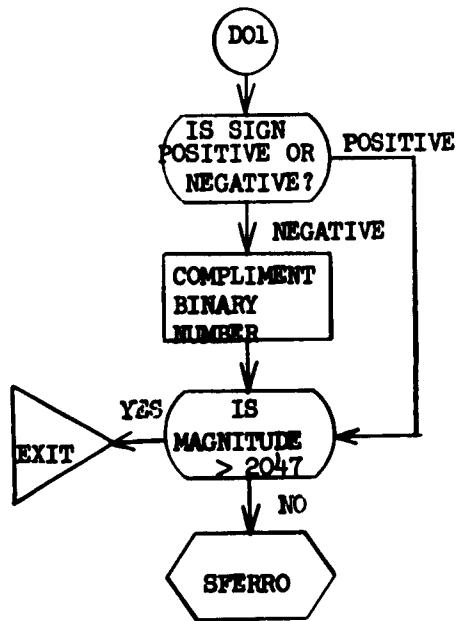




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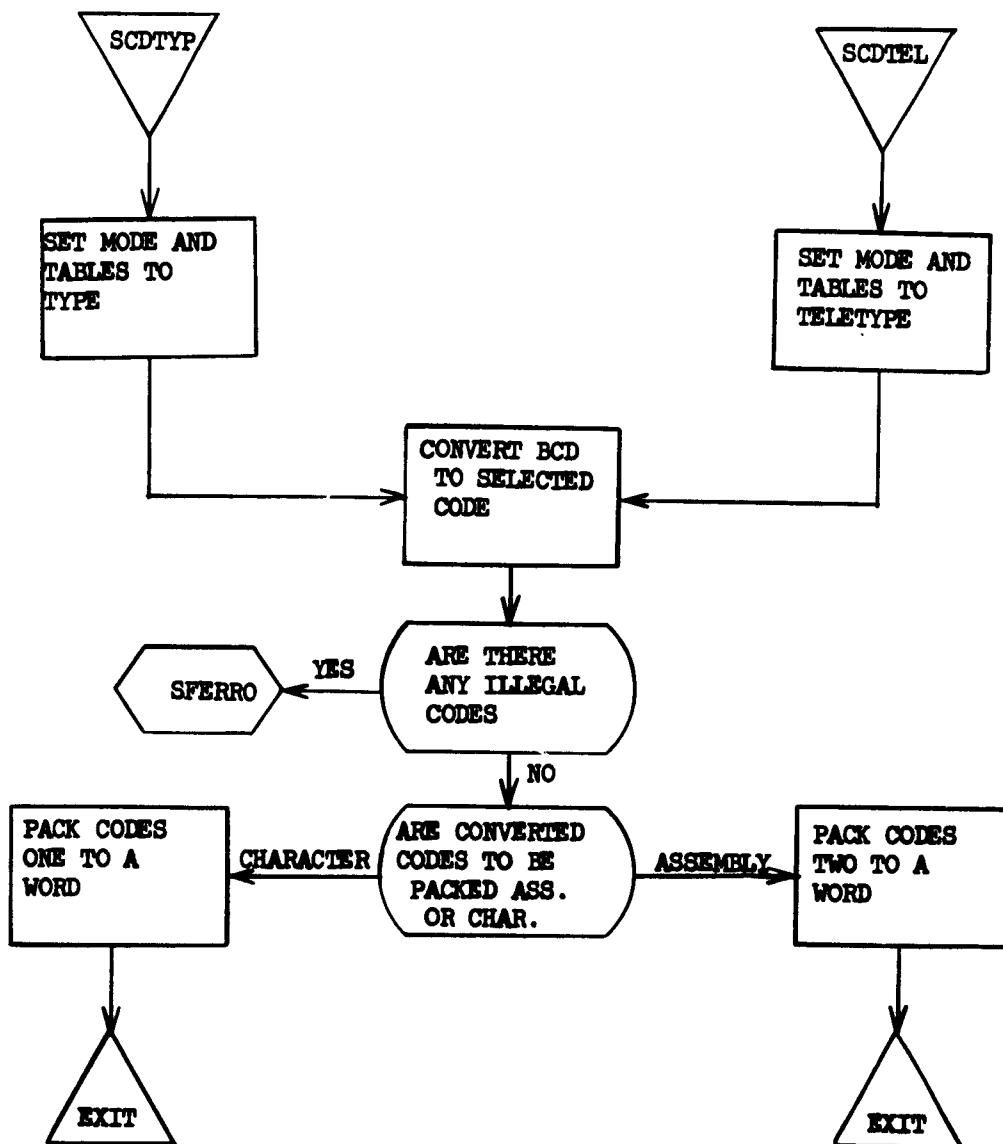
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APPENDIX A - CARD FORMATS

A. BINARY CARD

<u>Columns</u>	<u>Rows</u>	<u>Information</u>
1	7, 9, 12	Binary Card Indicators
1	8	If checksum is to be ignored
1	0 - 6	Word count
2		Starting address
3		Checksum of other 79 columns
4 - 9		Relocatable information (ignored by SSTL and SPST)
10 - 80		Binary information

B. BINARY TRANSFER CARD

<u>Columns</u>	<u>Rows</u>	<u>Information</u>
1	7, 9, 12	Binary Card Indicators
1	0 - 6	Word count = 0

Remainder of card ignored by SSTL and SPST.

C. BANK CARD

BANK in columns 1-4, logical bank selection in column 6. This card must precede binary decks as it indicates the loading bank.

D. CODED CORRECTIONS**1. Octal Card:**

Column 1	zero punch
Column 2	Bank selection (0, 1, 2 or 3)
Columns 3 - 6	Octal loading address
Columns 7 - 76	Octal entires

Up to 16 consecutive words may be on one card. No blank fields will be permitted between any of the entires.

2. Decimal Card:

Column 1	"D" punch
Column 2	Bank selection (0, 1, 2 or 3)
Columns 3 - 6	Octal loading address
Columns 7 - 78	Signed decimal entries
Columns 79 - 80	Blank

Only signed integers, no greater than 2047_{10} in magnitude, can be used.

Entries will be separated by one blank column.

Data will be terminated by two blanks.

3. Symbolic Card:

Column 1	"S" punch
Columns 2 - 7	A five or six character alpha-numeric tag left justified. If absolute addressing is desired, the bank

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selection will be in column 2 with
the octal loading address in columns
3 - 6.

Columns 8 - 11

Octal additive left justified (used
with symbolic addressing only).

Columns 15 - 17

Type of entry

DEC - signed decimal integer

OCT - unsigned octal

TYP - typewriter characters

BCD - BCD characters

TEL - teletype characters

Column 18

"R" punch if the TYP, BCD or TEL
data is to be packed in character
mode.

Columns 20 - 78

DEC - a blank will separate entries.
OCT - a blank will separate entries.

For TYP, BCD, and TEL. Starting in
column 20, the number of words of
data characters is followed immediate-
ly by the entries. Maximum of 9 words
per card.

Columns 79 - 80

Blank

Numeric data will be terminated by two blanks.

E. CODED TRANSFER CARD

Column 1

A twelve and zero punch in column 1.

F. END CARD

Columns 10 - 12

END

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Column 20

Bank number

Columns 21 - 29

Starting address

The bank number and starting address are optional.

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G. SAMPLE CORRECTORS

013467001145671023

OCTAL CARD

D20013+3 -1096 +400 +0 -768

DECIMAL CARD

SALPHA 70 BCDR 6REJECT

SYMBOLIC CARDS

S01367 DEC +6 +30 -10 +2047 -78

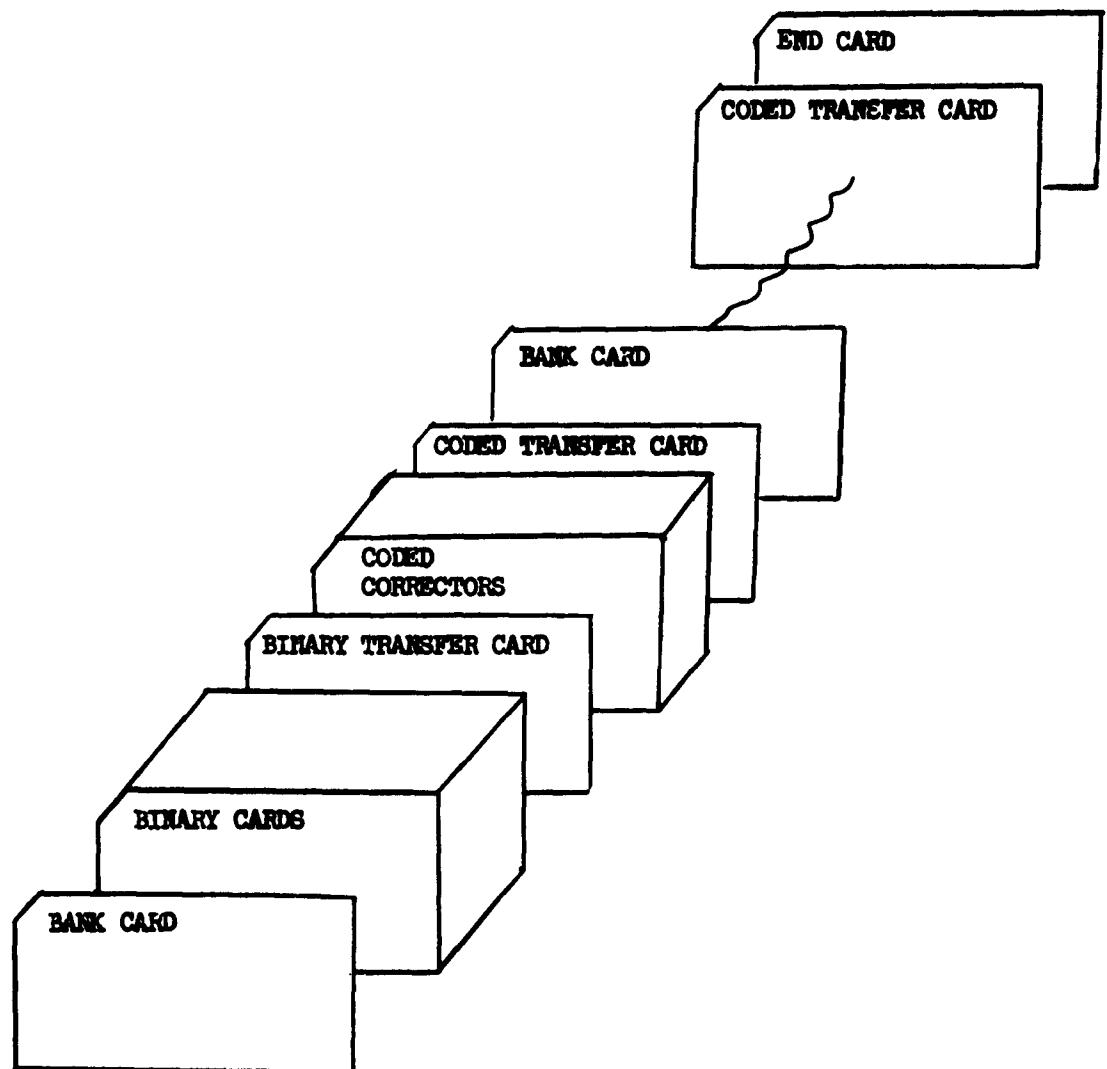
SGAMMA TYP 5HIT START

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APPENDIX B - INPUT DECK STRUCTURE



APPENDIX C - SYSTEM TAPE FORMAT

The system tape is a binary tape consisting of four records and ended by an end of file mark.

- | | |
|----------|---|
| Record 1 | loaded into Bank 0 from address 0_8 to 7700_8 . |
| Record 2 | loaded into Bank 1 from address 0 to 7777_8 ; contains the loader and Symbol table. |
| Record 3 | loaded into Bank 2 from address 0 to 7777_8 . |
| Record 4 | loaded into Bank 3 from address 0 to 7777_8 . |

All words which do not contain instructions or data are initialized to all zeros.

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APPENDIX D

SAMPLE SPST RUN

The deck shown on the following page was input to SPST and a tape was produced. A listing of the tape is also included in this appendix.

Several items of interest concerning the listings are given below.

1. The tape was tapedumped on the 1604 and, therefore, the format of the dump is the 1604 format.
2. The first record of the dump has each character shifted two positions to the right.
3. The binary deck has an assembly error, which causes location 104_8 to be 7777_8 rather than 5639_{10} .
4. The decimal card has an error which causes cell 20_8 to be set to 0642_8 , rather than 0000.
5. Cell 4096 is not changed by SPST; in the listing, it is 0260_8 .
6. The symbol SCOMA is equated to 200_8 in the symbol table used for this run.

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INPUT DECK

BANK 0

BINARY DECK AND TRANSFER CARD

000050000100100100100000110110110001111101111

SSCOMA 1 OCT 7771

SSCOMA DEC -2047

0000050005000607654321

SSCOMA 20 TEL 2ABCD

SSCOMA 2 TYP 2ABCD

SSCOMA 17 BCDR 4ABCD

D00011+1 2 +3 -1 +9 +99 -17 00

D000220 8 1 7 2 9 1 12 23 34 56 78 89

0

BANK 1

BINARY DECK AND TRANSFER CARD

0000000001000212345670

SSCOMA 20 TEL 2ABCD

SSCOMA 17 BCDR 4ABCD

SSCOMA 2 TYP 2ABCD

0000050005000607654321

SSCOMA DEC -2047

D000220 8 1 7 2 9 1 12 23 34 56 78 89

SSCOMA 1 OCT 7771

D00011+1 2 +3 -1 +9 +99 -17 00

0

BANK 2

BINARY DECK AND TRANSFER CARD

D000220 8 1 7 2 9 1 12 23 34 56 78 89

0000000001000212345670

SSCOMA 2 TYP 2ABCD

SSCOMA 17 BCDR 4ABCD

D00011+1 2 +3 -1 +9 +99 -17 00

000050000100100100100000110110110001111101111

SSCOMA 1 OCT 7771

SSCOMA 20 TEL 2ABCD

SSCOMA DEC -2047

0000050005000607654321

0

BANK 3

BINARY DECK AND TRANSFER CARD

000050000100100100100000110110110001111101111

SSCOMA 20 TEL 2ABCD

SSCOMA 17 BCDR 4ABCD

SSCOMA 2 TYP 2ABCD

0000000001000212345670

D00011+1 2 +3 -1 +9 +99 -17 00

D000220 8 1 7 2 9 1 12 23 34 56 78 89

SSCOMA 1 OCT 7771

SSCOMA DEC -2047

0000050005000607654321

0

END

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BINARY DECK CONTENTS

	0100	ORG	100	
	0100 0	1111	1111	101
	0111 1	2222	2222	102
	0122 2	3333	3333	103
	0133 3	4455	4455	104
U	0144 4	7777	5639	105
		0111	111	111
	0155 1	1010	1010	111
	0125 2	0101	101	112
	0136 3	1100	1100	113
	0146 4	0011	11	114
	0156 5	1001	1001	115
	0166 6	0110	110	116
	0176 7	7070	7070	117
	0200 0	0770	770	120
	0211 1	7007	7007	121
	0225 2	0707	707	122
	0236 3	7700	7700	123
	0246 4	0077	77	124
	0000		END	

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TAPE DUMP OF SPST TAPE

TAPEDUMP 12 13 1 0 0		PRINT 00001 FILES	PRINT 00000 RECORDS	SKIP 00000 FILES	SKIP 00000 RECORDS
FILE NO.	00011	01/61(OCTAL) WORDS			
RECORD NO. 00011 01/61(OCTAL) WORDS					
00000	01 7 10177	00 0 00000	00 0 00000	01 0 00200	03 7 77600 11 0 14377
00004	56 0 04200	00 0 00000	10 0 00000	11 0 00100	42 0 07001 16 0 13100
00010	00 0 00000	00 0 00000	00 0 00000	10 0 00010	00 0 01101 10 1 10001
00014	11 1 11011	11 0 00000	00 0 00000	00 0 00000	00 0 00000 00 0 00000
00020	00 1 11122	22 3 33344	25 7 77700	00 0 00000	00 0 00110 01 0 11070
00024	70 0 77077	07 0 70777	00 0 07000	00 0 00000	00 0 00000 00 0 00000
WORDS 00030 THROUGH 01037 CONTAIN 00 0 00000 00 0 00000					
00040	00 4 00077	71 3 02316	22 0 00000	00 0 00000	00 0 00000 00 0 00000
00044	61 0 04200	63 0 06410	00 0 00000	00 0 00000	00 0 00000 00 0 00000
WORDS 01050 THROUGH 01760 CONTAIN 00 0 00000 00 0 00000					
RECORD NO. 00012 02000(OCTAL) WORDS					
00000	00 0 10002	12 3 45674	00 0 00005	00 0 60765	43 2 10001 00 0 20003 77 7 60011 01 4 3756
00004	06 4 20000	00 0 00010	00 0 10007	00 0 20011	00 0 10014 00 2 70042 00 7 00116 01 3 10000
WORDS 00010 THROUGH 01017 CONTAIN 00 0 00000 00 0 00000					
00020	11 1 12222	33 3 34395	71 7 70000	00 0 00000	00 0 01010 01 0 11100 00 1 11001 01 1 00000
00024	07 7 07007	07 0 77700	06 7 70000	00 0 00000	00 0 00000 00 0 00000
WORDS 00030 THROUGH 01037 CONTAIN 00 0 00000 00 0 00000					
00040	40 0 07771	30 2 31022	00 0 00000	00 0 00000	00 0 00000 00 0 00000
00044	00 6 20063	00 6 40000	00 0 00000	00 0 00000	00 0 00000 00 0 00000
WORDS 00050 THROUGH 01776 CONTAIN 00 0 00000 00 0 00000					
01777	00 0 00000	02 6 00000			
RECORD NO. 00013 02000(OCTAL) WORDS					
00000	00 0 10002	12 3 4570	00 0 00005	00 0 60765	43 2 10001 00 0 20003 77 7 60011 01 4 3756
00004	06 4 20000	00 0 00010	00 0 10007	00 0 20011	00 0 10014 00 2 70042 00 7 00116 01 3 10000
00010	00 0 00000	00 0 00000	00 0 00000	00 0 10010	00 1 10110 11 1 01111
00014	11 1 01111	00 0 00000	00 0 00000	00 0 00000	00 0 00000 00 0 00000
00020	11 1 12222	33 3 34395	77 7 70000	00 0 00000	00 0 01010 01 0 11100 00 1 11001 01 1 00070
00024	07 7 07007	07 0 77700	00 0 00000	00 0 00000	00 0 00000 00 0 00000

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MORUS 00030 THROUGH 00037 CONTAIN 00 0 00000 0? 0 00000									
00040	40 0	07771	3 2	31622	0 0 0000	00 0 00000	00 0 00000	00 0 00000	00 0 00000
00044	30 2	31622	0 0 6	40000	0 0 0000	00 0 00000	00 0 00000	00 0 00000	00 0 00000
MORUS 00050 THROUGH 01776 CONTAIN 00 0 00000 00 0 00000									
01777	00 0	00000	02 6	00000	02 6 00000	02 6 00000	02 6 00000	02 6 00000	02 6 00000
RECORD NO. 00044 02000(OCTAL) WORDS									
00000	00 0	10002	12 3	45670	00 0 0005	00 0 6075	43 2 1001	00 0 20003	77 7 60011 01 4 5756
00044	00 4	20000	0 0 0	00010	00 0 10007	00 0 20011	00 0 10014	00 2 70042	00 7 00110 01 3 10000
00040	00 0	00000	0 0 0	00000	00 0 00000	00 0 00000	00 0 00000	00 1 10110	11 0 00111
00014	11 1	01111	0 0 0	00000	0 0 0 0000	00 0 00000	00 0 00000	00 0 00000	00 0 00000
00020	11 1	12222	3 3	34425	7 7 7 000	00 0 00000	00 0 01010	01 0 11000	00 1 11001 01 1 0/070
00024	07 7	07007	0 7 0	77700	00 0 70000	00 0 00000	00 0 00000	00 0 00000	00 0 00000
MORUS 00030 THROUGH 00037 CONTAIN 00 0 00000 00 0 00000									
00040	40 0	07771	30 2	31622	0 0 0 0000	00 0 00000	00 0 00000	00 0 00000	00 0 00000
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System Development Corporation,
Santa Monica, California
MILESTONE 11 PREPARE BIRD BUFFER SYSTEM
TAPE (SPST).
Scientific rept., TM-1003/005/00, by
R. C. Wise. 10 March 1963, 35p.
(Contract AF 19(628)-1648, Space Systems
Division Program, for Space Systems Division,
AFSC)

Unclassified report

DESCRIPTORS: Programming (Computers).
Satellite Networks.

States that the Prepare System Tape
program (SPST) will initially generate UNCLASSIFIED

a Bird Buffer System tape from a UNCLASSIFIED
specially formated input deck,
or subsequently edit any part
of an existing system tape. Reports
that SPST was validated by constructing
operational Bird Buffer System tapes.

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